National Climatic Data Center

DATA DOCUMENTATION

FOR

DATA SET 3340 (DSI-3340)

Hourly Precipitation - Inventory

March 21, 2003

National Climatic Data Center
151 Patton Ave.
Asheville, NC 28801-5001 USA

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1. Abstract: The 3340 data set represents the monthly inventory for the Hourly Precipitation Data, DSI-3240. The data set contains three types of records: (1) header records, (2) elements observed records, and (3) inventory records.

Header Records - Each header record contains the observing station identification, the most current station name, the name of the state where the station is located, the first year of hourly precipitation data observations, and the last year of hourly precipitation data observations.

Elements Observed Records - Each elements observed record contains the observing station identification and a list of the elements observed at that station over the station's period of record.

Inventory Records - Each inventory record contains the observing station identification, year of hourly precipitation data inventoried, name of element inventoried, number of missing days of hourly precipitation data for each month, and number of days of hourly precipitation data flagged for each month. Each inventory record represents the inventory for one year for one element observed of hourly precipitation data.

Missing Data - A day of hourly precipitation data is counted as missing when there is no hourly precipitation data value present for any hour of the day. The hourly precipitation data for the entire day is in a missing period, a deleted period, an accumulation period, or any combination of missing/deleted/accumulation periods. (See documentation for DSI-3240.)

Flagged Data - A day of hourly precipitation data is counted as flagged when there is at least one hourly flag representing the beginning or ending of a missing period, a deleted period, or an accumulation period. (See documentation for DSI-3240.)

2. Element Names and Definitions:

HEADER RECORD

Station Identifier: (STNIDH) is an 8-character alphanumeric string that uniquely specifies the station whose hourly precipitation data is inventoried. The first two characters represent the state code, the next four characters represent the cooperative network index, and the last two characters represent the cooperative network division. These three parts are described below.

The state codes are as follows:

01 Alabama	28 New Jersey
02 Arizona	29 New Mexico
03 Arkansas	30 New York
04 California	31 North Carolina
05 Colorado	32 North Dakota
06 Connecticut	33 Ohio
07 Delaware	34 Oklahoma
08 Florida	35 Oregon
09 Georgia	36 Pennsylvania
10 Idaho	37 Rhode Island
11 Illinois	38 South Carolina

12	Indiana	39	South Dakota
13	Iowa	40	Tennessee
14	Kansas	41	Texas
15	Kentucky	42	Utah
16	Louisiana	43	Vermont
17	Maine	44	Virginia
18	Maryland	45	Washington
19	Massachusetts	46	West Virginia
20	Michigan	47	Wisconsin
21	Minnesota	48	Wyoming
22	Mississippi	50	Alaska
23	Missouri	51	Hawaii
24	Montana	66	Puerto Rico
25	Nebraska	67	Virgin Islands
26	Nevada	91	Pacific Islands
27	New Hampshire		

The cooperative network index ranges in value from 0001 through 9993.

The cooperative network division ranges in value from 00 to 10. “00" is used in all station identifiers prior to November 1993.

Record Number: (RECNOH) is an integer that specifies the record number of the header record. The record number always has a value of “0001”, and is used only for sorting purposes.

Station Name: (STNAME) is a 20-character alphanumeric string that specifies the most current name associated with the station identifier.

State Name: (STATE) is a 14-character string that specifies the state where the station is located.

Begin Year: (BYEAR) is an integer that specifies the first year of hourly precipitation data for this station.

End Year: (EYEAR) is an integer that specifies the last year of hourly precipitation data for this station.

ELEMENTS OBSERVED RECORD

Station Identifier: (STNIDE) is the same as Station Identifier described in the HEADER RECORD.

Record Number: (RECNOE) is an integer that specifies the record number of the elements observed record. The record number always has a value of A0002", and is used only for sorting purposes.

Element Text: (TEXTE) is a 13-character alphanumeric string that always has a value of “ELEMS TAKEN =”.

Element Name: (ELNAME) is a 4-character string that specifies the elements observed at this station over the station=s period of record. The element name has a range of “HPCP”.

DATA RECORD

Station Identifier: (STNID) is the same as Station Identifier described in the HEADER RECORD.

Inventory Record Year: (YEAR) is an integer that specifies the year of hourly precipitation data inventoried for this data record. This element ranges in value from 1900 to present.

Element: (ELEM) is a 4-character alphanumeric string that specifies the element inventoried for this data record. The element has a range of "HPCP".

Number of Missing Days: (NUMISS) is a two character alphanumeric string that specifies the number of days per month of hourly precipitation data that is missing. There are twelve monthly values beginning with the month of January. Range of values is 01 - 30, "--", and "XX".

EXAMPLES

--	Entire month of hourly precipitation data is present.
XX	Entire month of hourly precipitation data is missing (missing and/or deleted and/or in an accumulation period).
06	Six (6) days of hourly precipitation data missing for the month.

Number of Flagged Days: (NUMFLG) is a two character alphanumeric string that specifies the number of days per month of hourly data that is flagged as being in a missing, deleted, or accumulation period. There are twelve monthly values beginning with the month of January. Range of values is 01 - 31, "--", and "XX".

EXAMPLES

--	No days flagged during the month.
XX	No days flagged during the month. Entire month of hourly precipitation data is missing.
02	Two (2) days of hourly precipitation data flagged for the month.

3. Start Date: 19009999

4. Stop Date: Ongoing.

5. Coverage: Atlantic Ocean, equatorial and mid-latitudes

a. Southernmost Latitude: 15S
b. Northernmost Latitude: 72N
c. Westernmost Longitude: 134E
d. Easternmost Longitude: 64W

6. How to Order Data:

Ask NCDC's Climate Services about the cost of obtaining this data set.
Phone: 828-271-4800
FAX: 828-271-4876

E-mail: **NCDC.Orders@noaa.gov**

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7. Archiving Data Center:

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, NC 28801-5001
Phone: (828) 271-4800.

8. Technical Contact:

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151 Patton Avenue
Asheville, NC 28801-5001
Phone: (828) 271-4800.

9. Known Uncorrected Problems: None.

10. Quality Statement: No quality control is performed on the 3340 data set.

11. Essential Companion Datasets:

a. Hourly Precipitation Data, DSI-3240
b. Master Station History Report, DSI-9767

12. References: There are no references applicable to the 3340 data set at this time.